

## A NEW SPECIES AND A NEW NAME OF THE GENUS *CTENIOPINUS* SEIDLITZ FROM CHINA (COLEOPTERA, TENEBRIONIDAE, ALLECULINAE)

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**Abstract** A new species of the genus *Cteniopinus* Seidlitz, 1896, *C. rubithoracus* sp. nov. is described from China. In addition, a new name *Cteniopinus fangchengensis* Yang et Ren nom. nov. was proposed to replace *Cteniopinus flavifemur* Bai et Ren, 2004 (nec Borchmann, 1930) due to junior homonymy. Type specimens are deposited in the Museum of Hebei University.

**Key words** Coleoptera, Tenebrionidae, Alleculinae, *Cteniopinus*, new species, new name, China.

### Introduction

The genus *Cteniopinus* Seidlitz, 1896 belongs to the tribe Omophlini (Coleoptera, Tenebrionidae, Alleculinae) and was erected based on the type species *Cistela altaicus* Gebler, 1830. Until now, it has 59 species in the world (China, Russia, Korea, Japan etc.), of which 44 species were found to occur in China, about 74.6% of the total world fauna. During the identification of the tenebrionid specimens collected from China, a new species of the genus *Cteniopinus*, *C. rubithoracus* sp. nov., from Guizhou Province and Hunan Province in China were found and are described in this paper. In addition, a new name *Cteniopinus fangchengensis* Yang et Ren nom. nov. is proposed to replace the junior homonym name *Cteniopinus flavifemur* Bai et Ren, 2004 (nec Borchmann, 1930). The type specimens are deposited in the Museum of Hebei University, Baoding, China (HBUM).

### Genus *Cteniopinus* Seidlitz, 1896

*Cteniopinus* Seidlitz, 1896. *Nat. Ins. Deutschl.*, 5 (2): 200; Reitter, 1906. *Verh. Nat. Ver. Bruun*, 45: 116, 129; Borchmann, 1910. *Col. Cat.*, 3: 49; Ogloblin & Znoiko, 1950. "Fauna U. S. S. R." *Coleoptera*, 18 (8): 1–133. Type species: *Cistela altaicus* Gebler, 1830.

### *Cteniopinus rubithoracus* sp. nov. (Figs 1–12)

Male. Body longer and with densely hair. Head, antennae, eyes, mouthparts, pronotal borders, legs and abdomen black; pronotum, elytra and pro-, meso-, meta-, sternum and pleuron reddish dark; gula brown; scutellum yellow-brown with black margin; spurs, claws and apex of last tarsus red-brown.

Head with dense punctures; labrum nearly

transverse, anterior margin shallow concave, dorsal surface with sparse punctures. Antennae extending to basal 1/3 of elytra, length ratio of antennomeres 1–11 as follows: 12:4:13:14:14:14:13:13:13:13:14. Terminal segment of maxillary palpus with length of upside margin 1.45 times as long as downside one.

Pronotum trapezoid, widest at the base, 1.3 times as wide as long, 2.2 times as wide as anterior margin, 2.4 times as wide as head. Lateral margins of pronotum gradually widening from front to base, entirely and finely bordered; anterior margin straight, broadly bordered along entire length; posterior margin feebly bisinuate, broadly bordered along entire length. Anterior angles of pronotum nearly rounded, posterior ones almost rectangular. Pronotal disc distinctly convex, with densely fine comate punctures; median depression extending to anterior and posterior margins.

Scutellum triangular, with fine punctures.

Elytra elongate-oval, 1.8 times as long as wide and 1.4 times as wide as pronotum. Humeral angles of elytra rounded. Elytral disc strongly convex, the punctato-striate deep, the punctures in striae distinct, intervals slightly convex. Epipleura not extending to apex of elytra.

Legs moderately strong, femora compressed, tibiae nearly clavate. Metatarsus as long as metatibiae, length ratio of metatarsomeres 1–4 as follows: 30:14:9:18.

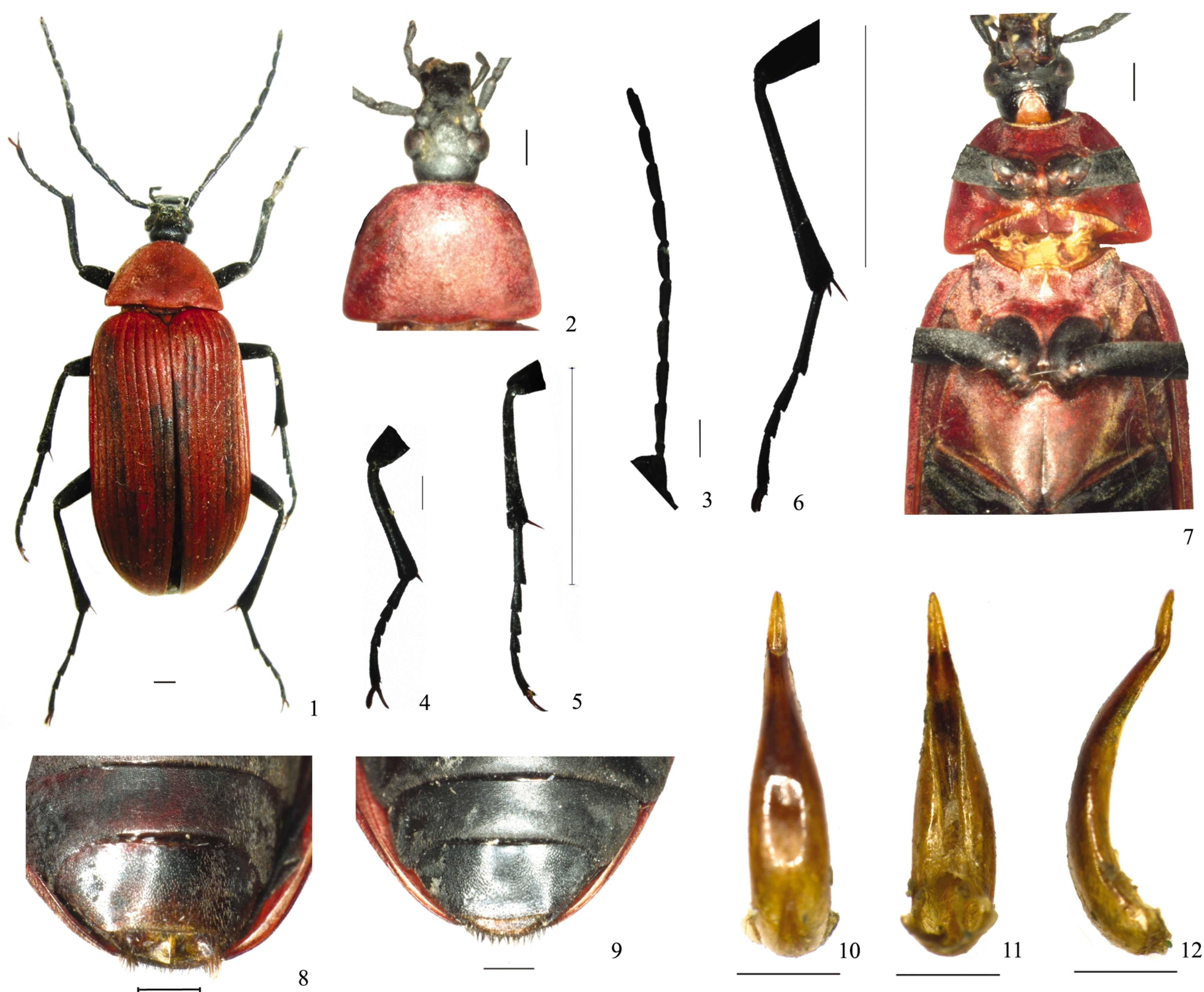
Propleuron with fine obscure comate punctures. Mesosternum obviously vertical concave in the front of the V-shaped area; longitudinal suture of metasternum complete. Apex margin of the 5<sup>th</sup> visible abdominal ventrite straight, in the terminal part with broadly

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Figs 1 – 12. *Cteniopinus rubithoracus* sp. nov. 1 – 8, 10 – 12. Male. 9. Female. 1. Adult male. 2. Head and pronotum in dorsal view. 3. Antenna. 4. Tibia and tarsus of profoot. 5. Tibia and tarsus of mesofoot left. 6. Tibia and tarsus of metafoot. 7. Head and thorax in ventral view. 8. Anal segment of male. 9. Anal segment of female. 10. Aedeagus in dorsal view. 11. Aedeagus in ventral view. 12. Aedeagus in lateral view. Scale bars = 1 mm.

shallow concave; in the middle of the 6<sup>th</sup> visible abdominal ventrite convex, pleurosternum arc curve and with setae.

Aedeagus (Figs 10 – 12). Length 3.5 mm, width 0.8 mm, widest at basal plate 1/3, about 4.6 times as long as wide; basal plate about 5.7 times longer than paramere; regularly narrowed at basal plate 2/3, apex of paramera acuminate.

Female. Body somewhat bigger, elytra wider, apex margin of the 6<sup>th</sup> segment of abdomen round. The other characters are similar to the male.

Body length: ♂ 22 mm, ♀ 24 mm; width: ♂ 7.5 mm, ♀ 8.5 mm.

Diagnosis. The new species is similar to *Cteniopinus ruber* Pic, 1923, but can be distinguished from the latter by the following characters: body relatively large (body length 22 – 24 mm, width 7.5 – 8.5 mm); gula brown; pro-, meso-, meta-, sternum and

pleuron reddish dark.

Etymology. From the Latin words “*ruber*” and “*thorax*”, meaning the pro-, meso-, meta-, sternum and pleuron reddish dark.

Holotype ♂, Mayanghe (28°42'N, 108°10'E; alt. 600 – 700 m), Yanhe County, Guizhou Province, China, 5 June 2007, collected by WANG Feng-Yan. Paratypes: 1 ♀, same data as holotype; 1 ♀, Maolan, Libo County (25°18'N, 107°56'E; alt. 548 m), Guizhou Province, China, 6 Aug. 2010, collected by NIU Yi-Ping and ZHOU Yong; 1 ♀, Huping Mountain (29°55'N, 110°40'E; alt. 1500 – 1600 m), Shimen County, Hunan Province, China, 19 Aug. 2004, collected by WANG Ji-Liang.

Distribution. China (Guizhou, Hunan).

***Cteniopinus fangchengensis* Yang et Ren, nom. nov.**

*Cteniopinus flavifemur* Bai et Ren, 2004. In: Insects from Mt. Shiwandashan Area of Guangxi. China Forestry Publishing House, Beijing. 320 – 321.



*Cteniopinus fangchengensis* Yang et Ren, nom. nov., pro. *Cteniopinus flavifemur* Bai et Ren, 2004. In: Insects from Mt. Shiwanda Area of Guangxi. China Forestry Publishing House, Beijing. 320 – 321. Nec Borchmann, 1930 due to junior homonymy.

## REFERENCES

- Bai, M and Ren, G-D 2003. Four new species of genus *Cteniopinus* Seidlitz, 1896 from China (Coleoptera, Tenebrionidae, Alleculinae). *Acta Zootaxonomica Sinica*, 28 (4): 682 – 687. [动物分类学报]
- Bai, M and Ren, G-D 2004. Coleoptera: Tenebrionidae: Alleculinae. In: Yang, X-K (ed.), Insects from Mt. Shiwandashan Area of Guangxi. China Forestry Publishing House, Beijing. 320 – 323.
- Borchmann, F. 1910. Alleculidae. In: Coleoptera Catalogus. Part 3. W Junk, Berlin. 1 – 80.
- Borchmann, F. 1930. Die Gattung *Cteniopinus* Seidlitz. *Koleopt Rdsch.*, 16: 143 – 164.
- Chujo, M. 1994. Trogositidae, Languriidae, Tenebrionidae and Alleculidae from Korea (incl. Chejudo Is.) (Coleoptera). *Esakia*, 31 (34): 187 – 193.
- Löbl, I. and Smetana, A. 2008. Catalogue of Palaearctic Coleoptera. Vol. 5. Apollo Books, Stenstrup, Denmark. 319 – 320.
- Miwa, Y. 1931. A Systematic Catalogue of Formosan Coleoptera, Alleculidae. Rept. 55 Dept. Agr. Gov. Res. Inst. Formoss. 169 – 172.
- Muche, W. H. 1972. Ergebnisse der zoologischen forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera: Alleculidae). *Annales Historiconaturales Musei Nationalis Hungarici*, 64: 223 – 225.
- Ogloblin, D. A. and Znoiko, D. V. 1950. "Fauna U. S. S. R." Coleoptera, Vol. 18, part 8. Alleculidae, part 2. Omophlinae. U. S. S. R. Academy of Sciences, Moscow. 1 – 133.
- Pic, M. 1908. Etude synoptique sur dibers (*Cteniopini*). *Echange*, 24: 38 – 62.
- Pic, M. 1925. Coleoptera asiatiques nouveaux. *Bull. Soc. Ent. Fr.*, 301 – 303.
- Ren, G-D and Bai, M 2002. Progress in the taxonomy research of the Alleculinae in the world (Coleoptera: Tenebrionidae). *Journal of Hebei University (Natural Science Edition)*, 22 (3): 307 – 312.
- Ren, G-D and Bai, M 2005. Coleoptera: Tenebrionidae. In: Yang, X-K (ed.), Insect Fauna of Middle-West Qinling Range and South Mountains of Gansu Province. Science Press, Beijing. 379 – 389.
- Ren, G-D and Wang, X-P 2010. Tenebrionidae. In: Ren, G-D (ed.), Fauna of Invertebrata from Liupan Mountain. Hebei University Publishing House, Baoding. 177 – 184.
- Seidlitz, G. V. 1896. Alleculidae. In: Erichson, W. F. et al. (eds.), Naturgeschichte der Insecten Deutschlands. I. Abt., Band 5, I. Hälfte. Nicolaische Verlags-Buchhandlung R. Stricker, Berlin. 305 pp.
- Sizumu, N. 1961. Two new *Cteniopinus* species from Japan and Formosa (Alleculidae). *Entom. Rev. Japan*, 12 (2): 38 – 40.
- Watt, J. C. 1974. A revised subfamily classification of Tenbrionidae (Coleoptera). *New Zealand Journal of Zoology*, 1 (4): 381 – 452.
- Wu, C-F 1936. Catalogus Insectorum Sinenisum III. Peking. 648 – 656.
- Yang, X-J and Ren, G-D 2010. Three new species of *Cteniopinus* Seidlitz (Coleoptera, Tenebrionidae, Alleculinae) from Xizang, China. *Acta Zootaxonomica Sinica*, 35 (1): 57 – 62. [动物分类学报]
- Yu, Y-Z and Ren, G-D 1997. Five new species of the genus *Cteniopinus* from China (Tenebrionidae: Alleculinae). *Sichuan Journal of Zoology*, 16 (1): 8 – 12, 20.

## 中国栉甲属一新种及一新名记述 (鞘翅目, 拟步甲科, 朽木甲亚科)

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**摘要** 记述栉甲属 *Cteniopinus* Seidlitz 1 新种, 即红胸栉甲 *Cteniopinus rubithoracus* sp. nov., 提供了雄虫成虫整体、头部和胸部背腹面观、触角、足、腹部肛节、阴茎以及雌性肛节特征照片。以新名防城栉甲 *Cteniopinus fangchengensis* nom. nov. 代替黄腿栉甲 *Cteniopinus flavifemur* Bai et Ren, 2004 (nec Borchmann, 1930)。模式标本保存于河北大学博物馆。

**红胸栉甲, 新种 *Cteniopinus rubithoracus* sp. nov.** (图 1 ~ 12)

新种与红色栉甲 *Cteniopinus ruber* Pic, 1923 相似, 区别于后者, 其主要特征为: 体大型, 体长 22 ~ 24 mm; 宽 7.5 ~ 8.5 mm; 外咽片褐色; 前胸、中胸、后胸腹板及侧板为暗红色。

正模 ♂, 贵州省沿河县麻阳河毛家村, 2007-06-05, 王凤艳采。副模: 1 ♀, 记录同正模; 1 ♀, 贵州荔波茂兰,

**关键词** 鞘翅目, 拟步甲科, 朽木甲亚科, 栉甲属, 新种, 新名, 中国。

**中图分类号** Q969.498.2

2010-08-06, 牛一平, 周勇采; 1 ♀, 湖南石门壶瓶山, 2004-08-19, 王继良采。

词源: 新种种名以前胸、中胸、后胸腹板及侧板为暗红色而拟定。

**防城栉甲, 新名 *Cteniopinus fangchengensis* Yang et Ren nom. nov.**

*Cteniopinus flavifemur* Bai et Ren, 2004. In: Insects from Mt. Shiwandashan Area of Guangxi. China Forestry Publishing House, Beijing. 320 – 321.

*Cteniopinus flavifemur* Bai et Ren, 2004 为 *Cteniopinus flavifemur* Borchmann, 1930 的次同名, 现命以新名 *Cteniopinus fangchengensis* Yang et Ren, 次同名同时废止。

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